

Amendments to the Claims

Claim 1 (**Currently Amended**) ~~An optical transmission system, used for radio access for transmitting information between a center station and a subscriber terminal through a radio base station for transmitting and receiving a radio signal to and from an antenna portion, for optically transmitting radio signals bidirectionally by respectively connecting a plurality of radio base stations covering different service areas and the center station through a plurality of optical fibers comprising:~~

a center station; and

a plurality of radio base stations connected to said center station through a plurality of optical fibers, said plurality of radio base stations each having an antenna portion and covering different service areas for bidirectional communication with subscriber terminals via radio signals, wherein

~~said center station comprises at least~~

~~an electrical-optical conversion portion, receiving one or more baseband signals as one or more modulated electric signals each having a predetermined intermediate frequency, for converting the one or more modulated electric signals into an optical signal signals by intensity modulation,~~

~~a local oscillation signal source for outputting a predetermined local oscillation signal,~~

~~an external modulation portion for intensity-modulating the optical signal obtained by the conversion in said electrical-optical conversion portion using the predetermined local oscillation signal outputted from said local oscillation signal source, and~~

~~an optical branching portion for branching the optical signal intensity-modulated by said external modulation portion into a plurality of optical signals, and respectively outputting the plurality of optical signals obtained by the branching to the plurality of optical fibers, and~~

~~each of said plurality of radio base stations comprises at least~~

an optical-electrical conversion portion for converting the optical signal transmitted through a respective one of the plurality of ~~said optical fibers~~ fiber into an electric signal in a radio frequency band, and

a band pass filter for extracting only an electric signal component in a desired frequency band from the electric signal obtained by the conversion in said optical-electrical conversion portion, and feeding the extracted electric signal component to said antenna portion.

Claims 2-5 (**Cancelled**)

Claim 6 (**Currently Amended**) The optical transmission system according to claim 1, wherein

~~the frequencies of the radio signals respectively used in said radio base stations~~
respectively use radio signals of differing ~~are set so as to differ~~ frequencies.

Claim 7 (**Cancelled**)

Claim 8 (**Original**) The optical transmission system according to claim 1, wherein

the optical signal outputted from said external modulation portion is an optical single-sideband signal with a carrier and a single-sideband component.

Claim 9 (**Currently Amended**) The optical transmission system according to claim 1, wherein

~~a Mach-Zehnder type external modulator is used for said external modulation~~
portion is a Mach-Zehnder type external modulator, and a bias point in said Mach-Zehnder type
~~the external modulator is set to a point at which light output power is a~~
the
minimum or a maximum so that the optical signal is intensity-modulated by a component which is twice a~~the~~ frequency of the predetermined~~said~~ local oscillation signal.

Claim 10 (**Currently Amended**) The optical transmission system according to claim 1, wherein

~~a semiconductor laser for converting an electric signal into an optical signal through direct modulation is used for said electrical-optical conversion portion~~ is a semiconductor laser for converting the one or more modulated electric signals into the optical signal through direct modulation.

Claim 11 (**Withdrawn - Currently Amended**) The optical transmission system according to claim 10, wherein

the optical fibers are each an optical fiber in which a ~~the~~ wavelength of the optical signal outputted from said electrical-optical conversion portion and a ~~the~~ zero dispersion wavelength almost coincide with each other ~~is used for said optical fiber.~~

Claims 12-19 (**Cancelled**)